ABSTRACT

A pyrrolesulfonamide derivative having the following formula (I): $O_2 A-Y$

$$\begin{array}{c}
O_{2}^{2} \quad A-Y \\
P \quad ()_{\ell} \\
Z_{1} \quad Z_{2}
\end{array}$$
(1)

wherein the ring P represented by



is a pyrrole ring having the following structure:

N b or R-N b

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wherein R represents alkyl, cycloalkyl, cycloalkyl-alkyl or aralkyl; the dashed line indicates the presence or absence of a bond; and, when the bond is present, Z_2 is not present and Z_1 represents H but, when the bond is absent, Z_1 represents H and Z_2 represents OH or Z_1 and Z_2 are combined together to represent O or a group NOR₁, in which R_1 represents H, or alkyl, aralkyl or aryl; ℓ stands for O or 1; A represents alkylene, alkenylene or alkynylene; and Y represents a group -N $W-(B)_m-D$ in which W represents

CH, C= or N; m stands for 0 or 1 when W is CH or N, or m stands for 1 when W is C=; B represents a specific divalent group; E_1 and E_2 each independently represents H or lower alkyl; and D represents an aromatic hydrocarbon group or heterocyclic group. The compound

(I) has strong serotonin-2 receptor antagonistic action and low toxicity and less side effects, and is useful as a therapeutic for circulatory diseases such as ischemic heart diseases, cerebrovascular disturbances and peripheral circulatory disturbances.

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